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1 Goldleaf hierarchical document browser   ◼
Jolon Faichney, Ruben Gonzalez
January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5
Publisher: IEEE Computer Society, IEEE Computer Society Press
Full text available: 📄 pdf(1.12 MB) 🗐 Additional Information: full citation, abstract, references
Publisher Site

A two-dimensional, zoomable, space filling user interface is presented for browsing conventional, hierarchical file systems. Through user studies the Goldleaf browser was compared with the widely used Microsoft Windows Explorer user interface. The times and number of mouse clicks to locate directories and files were recorded. The user studies found that the Goldleaf browser required less than half the mouse clicks to locate a directory compared with Windows Explorer. Through the use of document ...

2 Design of a time-sharing system allowing interactive graphics   ◼
◈ G. B. Anderson, K. R. Bertran, R. W. Conn, K. O. Malmquist, R. E. Millstein, S. Tokubo
January 1968 **Proceedings of the 1968 23rd ACM national conference**
Publisher: ACM Press
Full text available: 📄 pdf(603.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

For the past several years various investigators at Lawrence Radiation Laboratory, Livermore have been conducting studies in computer graphics and man-machine interaction. These studies have included aids to numerical analysis,1,2 photographic input and picture processing,3,4 and computer-aided circuit design.5 Each of these problems required—initially at least—a rather high degree of interaction between computer and ...

3 Removing backing store administration from the CAP operating system   ◼
◈ Carl Dellar
October 1980 **ACM SIGOPS Operating Systems Review**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(679.23 KB)   Additional Information: full citation, references, citings, index terms

4 Parameter interdependencies of file placement models in a Unix system   ◼
◈ Alfredo de J. Perez-Davila, Lawrence W. Dowdy
January 1984 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1984 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '84**, Volume 12 Issue 3

Publisher: ACM Press

Full text available: pdf(640.54 KB)   Additional Information: full citation, abstract, references, citings, index terms

A file assignment case study of a computer system running Unix is presented. A queueing network model of the system is constructed and validated. A modeling technique for the movement of files between and within disks is proposed. A detailed queueing network model is constructed for several file distributions in secondary storage. The interdependencies between the speed of the CPU, the swapping activity, the visit ratios and the multiprogramming level are examined and inclu ...

5   4.2BSD and 4.3BSD as examples of the UNIX system
John S. Quarterman, Abraham Silberschatz, James L. Peterson
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

Full text available: pdf(4.07 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

6   Cryptography and data security
Dorothy Elizabeth Robling Denning
January 1982 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB)   Additional Information: full citation, abstract, references, citings, index terms

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

7   Distributed file systems: concepts and examples
Eliezer Levy, Abraham Silberschatz
December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(5.33 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

8   Active Badges--The Next Generation
Igor Bokun, Krzysztof Zielinski
October 1998 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.

Full text available: html(22.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

Implementing a software location system as a Linux embedded application results in a robust, efficient and inexpensive system

9   Porting AIX onto the student electronic notebook
John Ioannidis, Gerald Q. Maguire, Israel Ben-Shaul, Marios Levedopoulos, Micky Liu
May 1991 **Proceedings of the 1991 ACM SIGSMALL/PC symposium on Small systems SIGSMALL '91**
Publisher: ACM Press
Full text available: pdf(755.19 KB)   Additional Information: full citation, references, index terms

10 A study of initialization in Linux and OpenBSD
Catherine Dodge, Cynthia Irvine, Thuy Nguyen
April 2005 **ACM SIGOPS Operating Systems Review**, Volume 39 Issue 2
Publisher: ACM Press
Full text available: pdf(2.02 MB)   Additional Information: full citation, abstract, references, index terms

The code that initializes a system can be notoriously difficult to understand. In secure systems, initialization is critical for establishing a starting state that is secure. This paper explores two architectures used for bringing an operating system to its initial state, once the operating system gains control from the boot loader. Specifically, the ways in which the OpenBSD and Linux operating systems handle initialization are dissected.

11 Porting AIX onto the Student Electronic Notebook
John Ioannidis, Gerald Q. Maguire, Israel Ben-Shaul, Marios Levedopoulos, Micky Liu
September 1991 **ACM SIGSMALL/PC Notes**, Volume 17 Issue 3-4
Publisher: ACM Press
Full text available: pdf(681.27 KB)   Additional Information: full citation, abstract, references, index terms

We describe the Student Electronic Notebook and the process of porting IBM's AIX 1.1 to run on it. We believe that portable workstation-class machines connected by wireless networks and dependent on a computational and informational infrastructure raise a number of important issues in operating systems and distributed computation (e.g., the partitioning of tasks between workstations and infrastructure), and therefore the development of such machines and their software is important. We conclude b ...

12 Virtual memory implementation: The multics virtual memory
A. Bensoussan, C. T. Clingen, R. C. Daley
October 1969 **Proceedings of the second symposium on Operating systems principles SOSP '69**
Publisher: ACM Press
Full text available: pdf(1.11 MB)   Additional Information: full citation, abstract, references, citings

As experience with use of on-line operating systems has grown, the need to share information among system users has become increasingly apparent. Many contemporary systems permit some degree of sharing. Usually, sharing is accomplished by allowing several users to share data via input and output of information stored in files kept in secondary storage. Through the use of segmentation, however, Multics provides direct hardware addressing by user and system programs of all information, independent ...

13 The UNIX time-sharing system
Dennis M. Ritchie, Ken Thompson
July 1974 **Communications of the ACM**, Volume 17 Issue 7
Publisher: ACM Press
Full text available: pdf(1.15 MB)   Additional Information: full citation, abstract, references, citings, index terms

UNIX is a general-purpose, multi-user, interactive operating system for the Digital Equipment Corporation PDP-11/40 and 11/45 computers. It offers a number of features seldom found even in larger operating systems, including: (1) a hierarchical file system incorporating demountable volumes; (2) compatible file, device, and inter-process I/O; (3) the ability to initiate asynchronous processes; (4) system command language selectable on a per-user basis; and (5) over 100 subsystems including a ...

Keywords: PDP-11, command language, file system, operating system, time-sharing

14 The UNIX time-sharing system

Dennis M. Ritchie, Ken Thompson

January 1983 **Communications of the ACM**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(658.06 KB)　Additional Information: full citation, abstract, references, citings

UNIX is a general-purpose, multi-user, interactive operating system for the Digital Equipment Corporation PDP-11/40 and 11/45 computers. It offers a number of features seldom found even in a larger operating systems, including: (1) a hierarchical file system incorporating demountable volumes; (2) compatible file, device, and inter-process I/O; (3) the ability to initiate asynchronous processes; (4) system command language selectable on a per-user basis; and (5) over 100 subsystems including ...

Keywords: PDP-11, command language, file system, operating system, time-sharing

15 The Multics virtual memory: concepts and design

A. Bensoussan, C. T. Clingen, R. C. Daley

May 1972 **Communications of the ACM**, Volume 15 Issue 5

Publisher: ACM Press

Full text available: pdf(1.14 MB)　　Additional Information: full citation, abstract, references, citings

As experience with use of on-line operating systems has grown, the need to share information among system users has become increasingly apparent. Many contemporary systems permit some degree of sharing. Usually, sharing is accomplished by allowing several users to share data via input and output of information stored in files kept in secondary storage. Through the use of segmentation, however, Multics provides direct hardware addressing by user and system programs of all information, indepe ...

Keywords: Multics, information sharing, memory hierarchy, memory management, operating system, paging, segmentation, virtual memory

16 A message system supporting fault tolerance

Anita Borg, Jim Baumbach, Sam Glazer

October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles SOSP '83**, Volume 17 Issue 5

Publisher: ACM Press

Full text available: pdf(1.07 MB)　　Additional Information: full citation, abstract, references, citings, index terms

A simple and general design uses message-based communication to provide software tolerance of single-point hardware failures. By delivering all interprocess messages to inactive backups for both the sender and the destination, both backups are kept in a state in which they can take over for their primaries. An implementation for the Auragen 4000 series of M68000-based systems is described. The operating system, AurosTM, is a distributed version of UNIX*. Majo ...

17 Testing and evaluating computer intrusion detection systems

Robert Durst, Terrence Champion, Brian Witten, Eric Miller, Luigi Spagnuolo

July 1999 **Communications of the ACM**, Volume 42 Issue 7
Publisher: ACM Press
Full text available: pdf(220.41 KB)   Additional Information: full citation, citings, index terms, review
                      html(35.64 KB)

18 Querying network directories
H. V. Jagadish, Laks V. S. Lakshmanan, Tova Milo, Divesh Srivastava, Dimitra Vista
June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2
Publisher: ACM Press

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

Heirarchically structured directories have recently proliferated with the growth of the Internet, and are being used to store not only address books and contact information for people, but also personal profiles, network resource information, and network and service policies. These systems provide a means for managing scale and heterogeneity, while allowing for conceptual unity and autonomy across multiple directory servers in the network, in a way for superior to what conventional relation ...

19 Query-independent evidence in home page finding
Trystan Upstill, Nick Craswell, David Hawking
July 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 3
Publisher: ACM Press

Full text available: pdf(258.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

Hyperlink recommendation evidence, that is, evidence based on the structure of a web's link graph, is widely exploited by commercial Web search systems. However there is little published work to support its popularity. Another form of query-independent evidence, URL-type, has been shown to be beneficial on a home page finding task. We compared the usefulness of these types of evidence on the home page finding task, combined with both content and anchor text baselines. Our experiments made use of ...

Keywords: Web information retrieval, citation and link analysis, connectivity

20 Quickly Setting Up PLIP and NFS
Loris Renggli
June 1998 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(21.22 KB)   Additional Information: full citation, abstract, references, index terms

Need to transfer files between your desktop and your laptop? Here's the easy way to do itnetworking

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L2	219	(transform$3 with tree) and ((replac$3 or subtitut$3) with tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/05 14:48
L3	9	(transform$3 with tree) and (((replac$3 or subtitut$3) with tree) same sub-tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/05 14:48

EAST Search History

Ref #	Hits	Search Query CAM	DBs	Default Operator	Plurals	Time Stamp
L1	2497	FAT same ((file near2 system) or directory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/05 17:35
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L3	71	1 and (volume near2 label) and (directories)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/05 17:38
L4	14	1 and ((volume near2 label) same (directories))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/05 17:52
L5	14	4 and (transfer$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/05 17:52